

EXELE TopView Software Data Sheet

Operating Systems

Windows 7SP1/8.1/10 (1607 or later) (32 and 64-bit)
Windows Server:
2008R2SP1/2012/2012R2/2016/2019 (32 and 64-bit)

Data Sources (monitored data):

OPC/SCADA: value and array data from OPC-DA or OPC-HDA Servers. Available for most PLCs, SCADA Systems, DCS's, and Historians.

SCADA Connect/Sync option for popular SCADA Systems

OPC Alarms and Events: OPC A&E Servers including Emerson DeltaV, ICONICS, GE iFIX, Honeywell Experion, Citect, and others

PI/PIAF: OSIsoft PI tags and AF attributes

MQTT: MQTT events from one or more brokers

SQL Lookup: ODBC and OLEDB databases

SQL Events: ODBC SQL-based event logs

PerfMon: Microsoft Windows System Performance and Network Ping Response

Canary Labs: tag data from Canary Labs Historian

General

- Runs interactively or as a Windows Service
- Multi-level tag grouping for categorizing, filtering, and notification of monitored tags and alarms
- Verbose Application, Alarm and Notification logs
- Alarm comments/annotations
- Monitor and alarm result of calculation/expression
- Audit change log, detailed change reports, and automatic backup to files and SQL Server
- Failover/redundancy for alarm engine and clients
- Performance & health monitoring with notification
- Configuration, Notification, and Recipient reports
- Programmatic configuration API

Alarm/Event Features

- Configurable value, status, timestamp-age, value flat-line, change, trend up/down alarm conditions
- Complex alarm conditions involving multiple tags and conditions
- Alarm logic and function scripting with VB.Net and optional access to external libraries
- Monitor and detect abnormal alarm activity (active alarm counts, frequency, flooding)
- Delay of alarm unless condition is active for a period
- Expiration of alarm after a period of time
- Alarm limit value dead bands
- Blackout period for alarm frequency filtering
- Suppress alarm detection if associated equipment not running (state-based alarming)
- Suppress alarm detection if status of tag not good
- Flexible alarm condition scheduling (days/time-of-day, exclude date ranges)
- Fixed and dynamic limits (e.g. tag values as limits)
- Define alarm and notification settings once for multiple tags (templates and inheritance)
- Tag groups/Alarm groups for notification and filtering
- Alarm priority and priority range colors
- Alarm time zones for accurate time reporting
- Custom alarm and return to normal messages
- Escalation of unacknowledged or persistent alarms through multi-step escalation templates
- Disable and snooze alarms (alarm shelving)
- Inhibit/gate alarms
- Synchronize acknowledge with monitored system
- Suppression of startup alarms
- Programmatic API and command-line/scripted configuration changes to tags, alarm conditions, and alarm limits

Audible Alarms and Notification

- Audible text-to-speech and WAV file alarms
- Notify on alarm, return-to-normal, and acknowledge
- E-mail notification: SMTP, reply acknowledge (POP3/IMAP), SSL, attachments, and failure retry
- SMS Notification: GSM/CDMA/HSPA cellular modem delivery of SMS text messages with reply acknowledge. Twilio hosted SMS delivery provider.
- Modem notification: TAP protocol for alphanumeric pagers, cell phones and direct-to-pager (numeric)
- Voice notification: audible text-to-speech to any phone using VOIP or TAPI (limited TAPI support)
- Redundancy: Email, SMS, and Voice
- Custom notification: can be developed by users
- MQTT: publish alarms and current state messages
- SNMP Traps: send alarms as v1 and v2 SNMP Traps
- Custom message content and email subjects
- Message templates for detailed message content and formatting (text or HTML)
- Escalate persistent or unacknowledged alarms
- Prioritized message delivery
- Output/write points upon alarm, return-to-normal, and alarm acknowledgement events
- Launch other applications in response to alarm
- Contact lists and flexible recipient scheduling
- Active Directory support for contact information
- Dynamic recipients (use tag values as recipients)
- Local/Remote Windows Notification Area icons
- API for programmatic configuration changes

Bi-direction Email/SMS communication

- Reply to email/SMS to acknowledge alarms
- Request reports or state information via email/SMS

Reports, Feeds, and Events

- HTML Snapshot reports of current values/alarms with local file output, publishing, and email
- Ad-hoc and Scheduled alarm history reports with local file output and email
- Alarm actions: details of each alarm state, acknowledge, and notification actions
- Alarm RSS Feed generation and publishing
- "EventHooks" for user-written event handling

Remote Access and Acknowledge

TopView offers multiple options for remotely accessing TopView and acknowledging alarms:

- Mobile Web App for Apple iOS, Android, any browser
- Remote Viewer client for Windows Desktop
- 2-way Email/SMS communication for alarm acknowledge and current state information requests
- Notification direct-link to acknowledge web page

Remote Alarm Console

- TopView *Remote Viewer* provides alarm monitoring, alarm management, audible alarms, and alarm acknowledgement in a rich, yet thin client.
- User-specific, customized views of alarm activity
- Query and filter alarm history, create alarm reports
- Interactive alarm analytics (tables and graphs)
- Permissions to view and acknowledge alarms

Mobile Web App

- Apple iOS, Android, tablets, and desktop browsers
- Monitor values and alarms, acknowledge alarms
- Query alarm history and identify bad actors
- Real-time alarm/value updates pushed to clients
- Optional user logon security and permissions

Configuration and Management

- Intuitive Configurator for users of all levels
- Web and desktop configuration tools
- Bulk configure through CSV files
- Administrative tools for real-time monitoring of alarms, notification queues, performance, and logs

SQL Server Output (optional)

Provides additional features and easy integration

- Alarm logging (Alarms table) enables alarm comments/annotations and provides better reporting performance and external access
- Current Values/Alarms (Snapshot table) provides current state information to external applications

!TOPVIEW®

ALARM AND NOTIFICATION SOFTWARE

